

**3GPP TSG CN Plenary Meeting #22**  
**10 - 12 December 2003, Maui, Hawaii, USA**

**NP-030553**

**Source:** CN5 (OSA)  
**Title:** Rel-6 CRs 29.198-xy and 29.998-04-4  
**Agenda item:** 9.7  
**Document for:** APPROVAL

Doc-1st-Level	Spec	CR	R	Ph	Subject	Cat	Version-Current	Doc-2nd-Lev	WI
NP-030553	29.198-01	027	-	Rel-6	Add OSA API support for 3GPP2 networks	B	5.3.0	N5-030403	OSA3
NP-030553	29.198-02	041	-	Rel-6	Add OSA API support for 3GPP2 networks	B	5.4.0	N5-030404	OSA3
NP-030553	29.198-03	091	-	Rel-6	Add OSA API support for 3GPP2 networks	B	5.4.0	N5-030405	OSA3
NP-030553	29.198-04-1	008	-	Rel-6	Add OSA API support for 3GPP2 networks	B	6.0.0	N5-030526	OSA3
NP-030553	29.198-04-2	010	-	Rel-6	Add OSA API support for 3GPP2 networks	B	5.4.0	N5-030527	OSA3
NP-030553	29.198-04-3	019	-	Rel-6	Add OSA API support for 3GPP2 networks	B	6.0.0	N5-030528	OSA3
NP-030553	29.198-04-4	014	-	Rel-6	Add OSA API support for 3GPP2 networks	B	6.0.0	N5-030529	OSA3
NP-030553	29.198-05	042	-	Rel-6	Add OSA API support for 3GPP2 networks	B	5.4.0	N5-030530	OSA3
NP-030553	29.198-06	024	-	Rel-6	Add OSA API support for 3GPP2 networks	B	6.0.0	N5-030531	OSA3
NP-030553	29.198-07	015	-	Rel-6	Add OSA API support for 3GPP2 networks	B	5.4.0	N5-030532	OSA3
NP-030553	29.198-08	027	-	Rel-6	Add OSA API support for 3GPP2 networks	B	5.4.0	N5-030533	OSA3
NP-030553	29.198-11	022	-	Rel-6	Add OSA API support for 3GPP2 networks	B	5.3.0	N5-030534	OSA3
NP-030553	29.198-12	025	-	Rel-6	Add OSA API support for 3GPP2 networks	B	5.3.0	N5-030535	OSA3
NP-030553	29.198-13	005	-	Rel-6	Add OSA API support for 3GPP2 networks	B	6.0.0	N5-030536	OSA3
NP-030553	29.198-14	014	-	Rel-6	Add OSA API support for 3GPP2 networks	B	5.3.0	N5-030537	OSA3
NP-030553	29.998-04-4	001	-	Rel-6	Add OSA API support for 3GPP2 networks in ISC Mapping	B	5.0.0	N5-030538	OSA3

joint-API-group (Parlay, ETSI Project OSA, 3GPP TSG\_CN WG5)  
 Meeting #24, San Francisco, CA, USA, 14 - 18 July 2003

N5-030403

CR-Form-v7

# CHANGE REQUEST

⌘ **29.198-01 CR 027** ⌘ rev **-** ⌘ Current version: **5.3.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	⌘ Add OSA API support for 3GPP2 networks		
<b>Source:</b>	⌘ CN5 (liliana.dinale@ericsson.ca)		
<b>Work item code:</b>	⌘ OSA3	<b>Date:</b>	⌘ 18/07/2003
<b>Category:</b>	⌘ <b>B</b>	<b>Release:</b>	⌘ REL-6
	Use <u>one</u> of the following categories: <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)

<b>Reason for change:</b>	⌘ It has been acknowledged that OSA API must shield the complexity of the network, its protocols and specific implementation from the applications. Since the specific underlying network and its protocols are transparent to the application, the OSA API may be deployed in other access networks than 3GPP. One of these networks is 3GPP2. This change is necessary in order to acknowledge OSA API for compatibility with 3GPP2 access networks.
<b>Summary of change:</b>	⌘ Indicate that OSA is applicable to 3GPP2 networks. Provide an Informative Annex that specifies how the OSA API may be used in 3GPP2 networks.
<b>Consequences if not approved:</b>	⌘ Lack of compatibility with other access networks (3GPP2), that may result in market fragmentation.

<b>Clauses affected:</b>	⌘ 2, New Annex D										
<b>Other specs affected:</b>	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 20px;">Y</td> <td style="width: 20px;">N</td> </tr> <tr> <td style="width: 20px;">X</td> <td style="width: 20px;"></td> </tr> <tr> <td style="width: 20px;"></td> <td style="width: 20px;">X</td> </tr> <tr> <td style="width: 20px;"></td> <td style="width: 20px;">X</td> </tr> </table> Other core specifications Test specifications O&M Specifications	Y	N	X			X		X	⌘	29.198-2 to 29.198-8 29.198-11 to 29.198-14 29.998-04-4
Y	N										
X											
	X										
	X										
<b>Other comments:</b>	⌘										

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## 2 References

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- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
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- [1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".
- [2] 3GPP TS 22.127: "Service Requirement for the Open Services Access (OSA)".
- [3] 3GPP TS 23.127: "Virtual Home Environment / Open Service Access (OSA)".
- [4] Void.
- [5] 3GPP TS 22.101: "Service Aspects; Service Principles".
- [6] Void.
- [7] 3GPP TS 29.002: "Mobile Application Part (MAP) specification".
- [8] 3GPP TS 29.078: "Customised Applications for Mobile network Enhanced Logic (CAMEL); CAMEL Application Part (CAP) specification".
- [9]—~~[60]~~ Void.
- [10] [3GPP2 P.S0001-B: "Wireless IP Network Standard", Version 1.0, September 2000.](#)
- [11] [3GPP2 S.R0037-0: "IP Network Architecture Model for cdma2000 Spread Spectrum Systems", Version 2.0, May 14, 2002.](#)
- [12] [Draft 3GPP2 X.P0013: "IP Network for cdma2000 Spread Spectrum Systems 3GPP2 All IP Core Network, Enhancements For, Multimedia Domain", under development.](#)

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## [Annex D \(informative\): Description of Overview for 3GPP2 cdma2000 networks](#)

[This annex is intended to define the OSA API Stage 3 interface definitions and it provides the complete OSA specifications. It is an extension of OSA API specifications capabilities to enable operation in cdma2000 systems environment. They are in alignment with 3GPP2 Stage 1 requirements and Stage 2 architecture defined in \[10\], \[11\] and \[12\]. These requirements are expressed as additions to and/or exclusions from the 3GPP Release 6 specification. The information given here is to be used by developers in 3GPP2 cdma2000 network architecture to interpret the 3GPP OSA specifications.](#)

### [General Exceptions](#)

[The terms 3GPP and UMTS are not applicable for the cdma2000 family of standards. Nevertheless these terms are used \(3GPP TR 21.905 \[1\]\) mostly in the broader sense of "3G Wireless System". If not stated otherwise there are no additions or exclusions required.](#)

CAMEL and CAP mappings are not applicable for cdma2000 systems.

## **Specific Exceptions**

### **Clause 1: Scope**

There are no additions or exclusions.

### **Clause 2: References**

Normative references on 3GPP TS 23.078 and on 3GPP TS 29.078 [8] are not applicable for cdma2000 systems.

### **Clause 3: Definitions and abbreviations**

There are no additions or exclusions.

### **Clause 4: Open Service Access APIs**

There are no additions or exclusions.

### **Clause 5: Structure of the OSA API (29.198) and Mapping (29.998) documents**

There are no additions or exclusions.

### **Clause 6: Methodology**

There are no additions or exclusions.

### **Clause 7: Introduction to OSA APIs**

There are no additions or exclusions.

### **Annex A (normative):OMG IDL**

There are no additions or exclusions.

### **Annex B (informative): W3C WSDL**

There are no additions or exclusions.

### **Annex C (informative): Java API**

There are no additions or exclusions.

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Annex ~~D~~E (informative):  
Change history

## CHANGE REQUEST

⌘ **29.198-02 CR 041** ⌘ rev **-** ⌘ Current version: **5.4.0** ⌘

For [HELP](#) on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	⌘ Add OSA API support for 3GPP2 networks		
<b>Source:</b>	⌘ CN5 (liliana.dinale@ericsson.ca)		
<b>Work item code:</b>	⌘ OSA3	<b>Date:</b>	⌘ 18/07/2003
<b>Category:</b>	⌘ <b>B</b>	<b>Release:</b>	⌘ REL-6
	Use <u>one</u> of the following categories: <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)

<b>Reason for change:</b>	⌘ It has been acknowledged that OSA API must shield the complexity of the network, its protocols and specific implementation from the applications. Since the specific underlying network and its protocols are transparent to the application, the OSA API may be deployed in other access networks than 3GPP. One of these networks is 3GPP2. This change is necessary in order to acknowledge OSA API for compatibility with 3GPP2 access networks.
<b>Summary of change:</b>	⌘ Indicate that OSA is applicable to 3GPP2 networks. Provide an Informative Annex that specifies how the OSA API may be used in 3GPP2 networks.
<b>Consequences if not approved:</b>	⌘ Lack of compatibility with other access networks (3GPP2), that may result in market fragmentation.

<b>Clauses affected:</b>	⌘ 2, New Annex E						
<b>Other specs</b>	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td style="width: 20px; height: 20px; text-align: center;">Y</td> <td style="width: 20px; height: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;">X</td> <td></td> </tr> </table>	Y	N	X		Other core specifications	⌘ 29.198-1, 29.198-3 to 29.198-8 29.198-11 to 29.198-14 29.998-04-4
Y	N						
X							
<b>affected:</b>	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td style="width: 20px; height: 20px;"></td> <td style="width: 20px; height: 20px; text-align: center;">X</td> </tr> <tr> <td style="text-align: center;">X</td> <td></td> </tr> </table>		X	X		Test specifications O&M Specifications	
	X						
X							
<b>Other comments:</b>	⌘						

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- [1] 3GPP TS 29.198-1: "Open Service Access; Application Programming Interface; Part 1: Overview".
- [2] 3GPP TS 22.127: "Stage 1 Service Requirement for the Open Service Access (OSA) (Release 5)".
- [3] 3GPP TS 23.127: "Virtual Home Environment (Release 5)".
- [4] ISO 8601: "Data elements and interchange formats - Information interchange - Representation of dates and times".
- [5] 3GPP TS 22.024: "Description of Charge Advice Information (CAI)".
- [6] IETF RFC 1738: "Uniform Resource Locators (URL)".
- [7] IETF RFC 0822: "Standard for the format of ARPA Internet text messages".
- [8] ISO 4217 (1995): "Codes for the representation of currencies and funds".
- [9] ITU-T Recommendation E.164: "The international public telecommunication numbering plan".
- [10] ITU-T Recommendation X.400: "Message handling system and service overview".
- [11] ISO 639: "Code for the representation of names of languages".
- [12] [3GPP2 P.S0001-B: "Wireless IP Network Standard", Version 1.0, September 2000.](#)
- [13] [3GPP2 S.R0037-0: "IP Network Architecture Model for cdma2000 Spread Spectrum Systems", Version 2.0, May 14, 2002.](#)
- [14] [Draft 3GPP2 X.P0013: "IP Network for cdma2000 Spread Spectrum Systems 3GPP2 All IP Core Network, Enhancements For, Multimedia Domain", under development.](#)

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### [Annex E \(informative\): Description of the Common Data definitions for 3GPP2 cdma2000 networks](#)

[This annex is intended to define the OSA API Stage 3 interface definitions and it provides the complete OSA specifications for cdma2000-based systems. It is an extension of OSA API specifications capabilities to enable operation in cdma2000 systems environment. They are in alignment with 3GPP2 Stage 1 requirements and Stage 2 architecture defined in \[12\], \[13\] and \[14\]. These requirements are expressed as additions to and/or exclusions from the Release 6 specification. The information given here is to be used by developers in 3GPP2 cdma2000 network architecture to interpret the 3GPP OSA specifications.](#)

## **General Exceptions**

The term UMTS is not applicable for the cdma2000 family of standards. Nevertheless the term UMTS is used in 3GPP TR 21.905 (Vocabulary for 3GPP Specifications) mostly in the broader sense of "3G Wireless System". If not stated otherwise there are no additions or exclusions required.

CAMEL and CAP mappings are not applicable for cdma2000 systems.

## **Specific Exceptions**

### **Clause 1: Scope**

There are no additions or exclusions.

### **Clause 2: References**

Normative references on 3GPP TS 23.078 and on 3GPP TS 29.078 are not applicable for cdma2000 systems.

### **Clause 3: Definitions and abbreviations**

There are no additions or exclusions.

### **Clause 4: Common Data definitions**

There are no additions or exclusions.

### **Clause 5: Common System Data definitions**

There are no additions or exclusions.

### **Annex A (normative):OMG IDL Description of the Common Data definitions**

There are no additions or exclusions.

### **Annex B (informative): W3C WSDL Description of the Common Data definitions**

There are no additions or exclusions.

### **Annex C (informative): Java API Description of the Common Data definitions**

There are no additions or exclusions.

### **Annex D (normative): Exception Hierarchy**

There are no additions or exclusions.

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Annex **FE** (informative):  
Change history



## CHANGE REQUEST

⌘ **29.198-03 CR 091** ⌘ rev **-** ⌘ Current version: **5.4.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	⌘ Add OSA API support for 3GPP2 networks		
<b>Source:</b>	⌘ CN5 (liliana.dinale@ericsson.ca)		
<b>Work item code:</b>	⌘ OSA3	<b>Date:</b>	⌘ 18/07/2003
<b>Category:</b>	⌘ <b>B</b>	<b>Release:</b>	⌘ <b>REL-6</b>
	Use <u>one</u> of the following categories: <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)

<b>Reason for change:</b>	⌘ It has been acknowledged that OSA API must shield the complexity of the network, its protocols and specific implementation from the applications. Since the specific underlying network and its protocols are transparent to the application, the OSA API may be deployed in other access networks than 3GPP. One of these networks is 3GPP2. This change is necessary in order to acknowledge OSA API for compatibility with 3GPP2 access networks.
<b>Summary of change:</b>	⌘ Indicate that OSA is applicable to 3GPP2 networks. Provide an Informative Annex that specifies how the OSA API may be used in 3GPP2 networks.
<b>Consequences if not approved:</b>	⌘ Lack of compatibility with other access networks (3GPP2), that may result in market fragmentation.

<b>Clauses affected:</b>	⌘ 2, New Annex D								
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Y	N								
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<b>Other comments:</b>	⌘								

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- [3] 3GPP TS 23.127: "Virtual Home Environment (Release 5)".
- [4] IETF PPP Authentication Protocols - Challenge Handshake Authentication Protocol [RFC 1994, August\_1996].
- [5] [3GPP2 P.S0001-B: "Wireless IP Network Standard", Version 1.0, September 2000.](#)
- [6] [3GPP2 S.R0037-0: "IP Network Architecture Model for cdma2000 Spread Spectrum Systems", Version 2.0, May 14, 2002.](#)
- [7] [Draft 3GPP2 X.P0013: "IP Network for cdma2000 Spread Spectrum Systems 3GPP2 All IP Core Network, Enhancements For, Multimedia Domain", under development.](#)

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## Annex D (informative): Description of the Framework for 3GPP2 cdma2000 networks

This annex is intended to define the OSA API Stage 3 interface definitions and it provides the complete OSA specifications for cdma2000-based systems. It is an extension of OSA API specifications capabilities to enable operation in cdma2000 systems environment. They are in alignment with 3GPP2 Stage 1 requirements and Stage 2 architecture defined in [5], [6] and [7]. These requirements are expressed as additions to and/or exclusions from the 3GPP Release 6 specification. The information given here is to be used by developers in 3GPP2 cdma2000 network architecture to interpret the 3GPP OSA specifications.

### General Exceptions

The term UMTS is not applicable for the cdma2000 family of standards. Nevertheless the term UMTS is used in 3GPP TR 21.905 (Vocabulary for 3GPP Specifications) mostly in the broader sense of "3G Wireless System". If not stated otherwise there are no additions or exclusions required.

CAMEL and CAP mappings are not applicable for cdma2000 systems.

## **Specific Exceptions**

### **Clause 1: Scope**

There are no additions or exclusions.

### **Clause 2: References**

Normative references on 3GPP TS 23.078 and on 3GPP TS 29.078 are not applicable for cdma2000 systems.

### **Clause 3: Definitions and abbreviations**

There are no additions or exclusions.

### **Clause 4: Overview of the Framework**

There are no additions or exclusions.

### **Clause 5: The Base Interface Specification**

There are no additions or exclusions.

### **Clause 6: Framework Access Session API**

There are no additions or exclusions.

### **Clause 7 Framework-to-Application Sequence Diagrams**

There are no additions or exclusions.

### **Clause 8: Framework-to-Service API**

There are no additions or exclusions.

### **Clause 9: Service Properties**

Since CAMEL protocol is not applicable for cdma2000 systems, an SCS shall indicate support for the CAMEL feature through service properties. For cdma2000 systems the CAMEL service properties shall be disabled (CAMEL shall be turned always off in the case of the 3GPP2 networks; e.g.: UserLocationCamel shall be set to false).

### **Clause 10: Data Definitions**

There are no additions. P\_USER\_LOCATION\_CAMEL value of TpServiceTypeName is not required to be supported in the 3GPP2 networks.

### **Clause 11: Exception Classes**

There are no additions or exclusions.

### **Annex A (normative):OMG IDL Description of the Framework**

There are no additions or exclusions.

### **Annex B (informative): W3C WSDL Description of the Framework**

There are no additions or exclusions.

### **Annex C (informative): Java API Description of the Framework**

There are no additions or exclusions.

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Annex **ED** (informative):  
Change history

## CHANGE REQUEST

⌘ **29.198-04-1 CR 008** ⌘ rev **-** ⌘ Current version: **6.0.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

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<b>Source:</b>	⌘ CN5 (liliana.dinale@ericsson.ca)		
<b>Work item code:</b>	⌘ OSA3	<b>Date:</b>	⌘ 31/10/2003
<b>Category:</b>	⌘ <b>B</b>	<b>Release:</b>	⌘ <b>REL-6</b>
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- [1] 3GPP TS 29.198-01: "Open Service Access (OSA) Application Programming Interface (API); Part 1: Overview".
- [2] 3GPP TS 22.127: "Service Requirement for the Open Services Access (OSA); Stage 1".
- [3] 3GPP TS 23.127: "Virtual Home Environment (VHE) / Open Service Access (OSA); Stage 2".
- [4] 3GPP TS 22.002: "Circuit Bearer Services (BS) supported by a Public Land Mobile Network (PLMN)".
- [5] ISO 4217 (1995): "Codes for the representation of currencies and funds".
- [6] 3GPP TS 24.002: "GSM-UMTS Public Land Mobile Network (PLMN) Access Reference Configuration".
- [7] 3GPP TS 22.003: "Circuit Teleservices supported by a Public Land Mobile Network (PLMN)".
- [8] ITU-T Recommendation Q.1238-2 (2000): "Interface Recommendation for Intelligent Network Capability Set 3: SCF - SSF interface".
- [9] [3GPP2 P.S0001-B: "Wireless IP Network Standard", Version 1.0, September 2000.](#)
- [10] [3GPP2 S.R0037-0: "IP Network Architecture Model for cdma2000 Spread Spectrum Systems", Version 2.0, May 14, 2002.](#)
- [11] [Draft 3GPP2 X.P0013: "IP Network for cdma2000 Spread Spectrum Systems 3GPP2 All IP Core Network, Enhancements For, Multimedia Domain", under development.](#)

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### [Annex D \(informative\): Description of Call Control Sub-part 1: Call Control Common Definitions for 3GPP2 cdma2000 networks](#)

[This annex is intended to define the OSA API Stage 3 interface definitions and it provides the complete OSA specifications. It is an extension of OSA API specifications capabilities to enable operation in cdma2000 systems environment. They are in alignment with 3GPP2 Stage 1 requirements and Stage 2 architecture defined in \[9\], \[10\] and \[11\]. These requirements are expressed as additions to and/or exclusions from the 3GPP Release 6 specification. The information given here is to be used by developers in 3GPP2 cdma2000 network architecture to interpret the 3GPP OSA specifications.](#)

## **General Exceptions**

The terms 3GPP and UMTS are not applicable for the cdma2000 family of standards. Nevertheless these terms are used (3GPP TR 21.905) mostly in the broader sense of "3G Wireless System". If not stated otherwise there are no additions or exclusions required.

CAMEL and CAP mappings are not applicable for cdma2000 systems.

## **Specific Exceptions**

### **Clause 1: Scope**

There are no additions or exclusions.

### **Clause 2: References**

Normative references on 3GPP TS 23.078 and on 3GPP TS 29.078 are not applicable for cdma2000 systems.

### **Clause 3: Definitions and abbreviations**

There are no additions or exclusions.

### **Clause 4: Call Control SCF**

There are no additions or exclusions.

### **Clause 5: The Service Interface Specifications**

There are no additions or exclusions.

### **Clause 6: Common Call Control Data Types**

There are no additions or exclusions.

### **Annex A (normative): OMG IDL Description of Common Call Control Data Types**

There are no additions or exclusions.

### **Annex B (informative): W3C WSDL Description of Common Call Control Data Types**

There are no additions or exclusions.

### **Annex C (informative): Java API Description of the Call Control SCFs**

There are no additions or exclusions.

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## Annex ~~D~~E (informative): Change history

Change history							
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
Mar 2003	CN_19	NP-030029	003	--	Correction to Application's requirements for supporting methods	5.1.0	5.2.0
Mar 2003	CN_19	NP-030020	004	--	Correction to remove unused TpCallChargeOrder	5.1.0	5.2.0
Jun 2003	CN_20	NP-030242	005	--	Correction to Common Call Control Data	5.2.0	5.3.0
Jun 2003	CN_20	NP-030304	006	1	Add support for multi services	5.3.0	6.0.0

## CHANGE REQUEST

⌘ **29.198-04-2 CR 010** ⌘ rev **-** ⌘ Current version: **5.4.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	⌘ Add OSA API support for 3GPP2 networks		
<b>Source:</b>	⌘ CN5 (liliana.dinale@ericsson.ca)		
<b>Work item code:</b>	⌘ OSA3	<b>Date:</b>	⌘ 31/10/2003
<b>Category:</b>	⌘ <b>B</b>	<b>Release:</b>	⌘ REL-6
	Use <u>one</u> of the following categories: <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)

<b>Reason for change:</b>	⌘ It has been acknowledged that OSA API must shield the complexity of the network, its protocols and specific implementation from the applications. Since the specific underlying network and its protocols are transparent to the application, the OSA API may be deployed in other access networks than 3GPP. One of these networks is 3GPP2. This change is necessary in order to acknowledge OSA API for compatibility with 3GPP2 access networks.
<b>Summary of change:</b>	⌘ Indicate that OSA is applicable to 3GPP2 networks. Provide an Informative Annex that specifies how the OSA API may be used in 3GPP2 networks.
<b>Consequences if not approved:</b>	⌘ Lack of compatibility with other access networks (3GPP2), that may result in market fragmentation.

<b>Clauses affected:</b>	⌘ 2, New Annex D										
<b>Other specs affected:</b>	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 20px;">Y</td> <td style="width: 20px;">N</td> </tr> <tr> <td style="width: 20px;">X</td> <td style="width: 20px;"></td> </tr> <tr> <td style="width: 20px;"></td> <td style="width: 20px;">X</td> </tr> <tr> <td style="width: 20px;"></td> <td style="width: 20px;">X</td> </tr> </table> Other core specifications Test specifications O&M Specifications	Y	N	X			X		X	⌘	29.198-1 to 29.198-8 29.198-11 to 29.198-14 29.998-04-4
Y	N										
X											
	X										
	X										
<b>Other comments:</b>	⌘										

**How to create CRs using this form:**

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>.



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## 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

- [1] 3GPP TS 29.198-1 "Open Service Access; Application Programming Interface; Part 1: Overview".
- [2] 3GPP TS 22.127: "Stage 1 Service Requirement for the Open Service Access (OSA) (Release 5)".
- [3] 3GPP TS 23.127: "Virtual Home Environment (Release 5)".
- [4] 3GPP TS 22.002: "Circuit Bearer Services Supported by a PLMN".
- [5] ISO 4217 (1995): "Codes for the representation of currencies and funds".
- [6] 3GPP TS 24.002: "GSM-UMTS Public Land Mobile Network (PLMN) Access Reference Configuration".
- [7] 3GPP TS 22.003: "Circuit Teleservices supported by a Public Land Mobile Network (PLMN)".
- [8] [3GPP2 P.S0001-B: "Wireless IP Network Standard", Version 1.0, September 2000.](#)
- [9] [3GPP2 S.R0037-0: "IP Network Architecture Model for cdma2000 Spread Spectrum Systems", Version 2.0, May 14, 2002.](#)
- [10] [Draft 3GPP2 X.P0013: "IP Network for cdma2000 Spread Spectrum Systems 3GPP2 All IP Core Network, Enhancements For, Multimedia Domain", under development.](#)

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### Annex D (informative): Description of Call Control Sub-part 2: Generic call control SCF for 3GPP2 cdma2000 networks

This annex is intended to define the OSA API Stage 3 interface definitions and it provides the complete OSA specifications. It is an extension of OSA API specifications capabilities to enable operation in cdma2000 systems environment. They are in alignment with 3GPP2 Stage 1 requirements and Stage 2 architecture defined in [8], [9] and [10]. These requirements are expressed as additions to and/or exclusions from the 3GPP Release 6 specification. The information given here is to be used by developers in 3GPP2 cdma2000 network architecture to interpret the 3GPP OSA specifications.

## **General Exceptions**

The terms 3GPP and UMTS are not applicable for the cdma2000 family of standards. Nevertheless these terms are used (3GPP TR 21.905) mostly in the broader sense of "3G Wireless System". If not stated otherwise there are no additions or exclusions required.

CAMEL and CAP mappings are not applicable for cdma2000 systems.

## **Specific Exceptions**

### **Clause 1: Scope**

There are no additions or exclusions.

### **Clause 2: References**

Normative references on 3GPP TS 23.078 and on 3GPP TS 29.078 are not applicable for cdma2000 systems.

### **Clause 3: Definitions and abbreviations**

There are no additions or exclusions.

### **Clause 4: Generic Call Control Service Sequence Diagrams**

There are no additions or exclusions. Nevertheless, CAMEL and CAP mappings are not applicable for cdma2000 systems.

### **Clause 5: Class Diagrams**

There are no additions or exclusions.

### **Clause 6: Generic Call Control Service Interface Classes**

There are no additions or exclusions.

### **Clause 7: Generic Call Control Service State Transition Diagrams**

There are no additions or exclusions.

### **Clause 8: Generic Call Control Service Properties**

There are no additions or exclusions. Nevertheless, for cdma2000 systems the CAMEL data types and service properties are not applicable.

### **Clause 9: Generic Call Control Data Definitions**

There are no additions or exclusions.

### **Annex A (normative): OMG IDL Description of Generic Call Control SCF**

There are no additions or exclusions.

### **Annex B (informative): W3C WSDL Description of Generic Call Control SCF**

[There are no additions or exclusions.](#)

[Annex C \(informative\): Java API Description of the Call Control SCFs](#)

[There are no additions or exclusions.](#)

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Annex ~~D~~E (informative):  
Change history

## CHANGE REQUEST

⌘ **29.198-04-3 CR 019** ⌘ rev **-** ⌘ Current version: **6.0.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	⌘ Add OSA API support for 3GPP2 networks		
<b>Source:</b>	⌘ CN5 (liliana.dinale@ericsson.ca)		
<b>Work item code:</b>	⌘ OSA3	<b>Date:</b>	⌘ 31/10/2003
<b>Category:</b>	⌘ <b>B</b>	<b>Release:</b>	⌘ REL-6
	Use <u>one</u> of the following categories: <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)

<b>Reason for change:</b>	⌘ It has been acknowledged that OSA API must shield the complexity of the network, its protocols and specific implementation from the applications. Since the specific underlying network and its protocols are transparent to the application, the OSA API may be deployed in other access networks than 3GPP. One of these networks is 3GPP2. This change is necessary in order to acknowledge OSA API for compatibility with 3GPP2 access networks.
<b>Summary of change:</b>	⌘ Indicate that OSA is applicable to 3GPP2 networks. Provide an Informative Annex that specifies how the OSA API may be used in 3GPP2 networks.
<b>Consequences if not approved:</b>	⌘ Lack of compatibility with other access networks (3GPP2), that may result in market fragmentation.

<b>Clauses affected:</b>	⌘ 2, New Annex D										
<b>Other specs affected:</b>	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;"></td> </tr> <tr> <td style="text-align: center;"></td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;"></td> <td style="text-align: center;">X</td> </tr> </table> Other core specifications Test specifications O&M Specifications	Y	N	X			X		X	⌘	29.198-1 to 29.198-8 29.198-11 to 29.198-14 29.998-04-4
Y	N										
X											
	X										
	X										
<b>Other comments:</b>	⌘										

**How to create CRs using this form:**

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>.

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## 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

- [1] 3GPP TS 29.198-01: "Open Service Access (OSA) Application Programming Interface (API); Part 1: Overview".
- [2] 3GPP TS 22.127: "Service Requirement for the Open Services Access (OSA); Stage 1".
- [3] 3GPP TS 23.127: "Virtual Home Environment (VHE) / Open Service Access (OSA); Stage 2".
- [4] 3GPP TS 22.002: "Circuit Bearer Services (BS) supported by a Public Land Mobile Network (PLMN)".
- [5] ISO 4217 (1995): "Codes for the representation of currencies and funds".
- [6] 3GPP TS 24.002: "GSM-UMTS Public Land Mobile Network (PLMN) Access Reference Configuration".
- [7] 3GPP TS 22.003: "Circuit Teleservices supported by a Public Land Mobile Network (PLMN)".
- [8] ITU-T Q.763: "Signalling System No. 7 - ISDN user part formats and codes".
- [9] ANSI T1.113: "Signalling System No. 7 (SS7) - Integrated Services Digital Network (ISDN) User Part".
- [10] [3GPP2 P.S0001-B: "Wireless IP Network Standard", Version 1.0, September 2000.](#)
- [11] [3GPP2 S.R0037-0: "IP Network Architecture Model for cdma2000 Spread Spectrum Systems", Version 2.0, May 14, 2002.](#)
- [12] [Draft 3GPP2 X.P0013: "IP Network for cdma2000 Spread Spectrum Systems 3GPP2 All IP Core Network, Enhancements For, Multimedia Domain", under development.](#)

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### [Annex D \(informative\): Description of Call Control Sub-part 3: Multi-party call control SCF for 3GPP2 cdma2000 networks](#)

[This annex is intended to define the OSA API Stage 3 interface definitions and it provides the complete OSA specifications. It is an extension of OSA API specifications capabilities to enable operation in cdma2000 systems environment. They are in alignment with 3GPP2 Stage 1 requirements and Stage 2 architecture defined in \[10\], \[11\] and \[12\]. These requirements are expressed as additions to and/or exclusions from the 3GPP Release 6 specification. The information given here is to be used by developers in 3GPP2 cdma2000 network architecture to interpret the 3GPP OSA specifications.](#)

## **General Exceptions**

The terms 3GPP and UMTS are not applicable for the cdma2000 family of standards. Nevertheless these terms are used (3GPP TR 21.905) mostly in the broader sense of "3G Wireless System". If not stated otherwise there are no additions or exclusions required.

CAMEL and CAP mappings are not applicable for cdma2000 systems.

## **Specific Exceptions**

### **Clause 1: Scope**

There are no additions or exclusions.

### **Clause 2: References**

Normative references on 3GPP TS 23.078 and on 3GPP TS 29.078 are not applicable for cdma2000 systems.

### **Clause 3: Definitions and abbreviations**

There are no additions or exclusions.

### **Clause 4: MultiParty Call Control Service Sequence Diagrams**

There are no additions or exclusions.

### **Clause 5: Class Diagrams**

There are no additions or exclusions.

### **Clause 6: MultiParty Call Control Service Interface Classes**

There are no additions or exclusions.

### **Clause 7: MultiParty Call Control Service State Transition Diagrams**

There are no additions or exclusions.

### **Clause 8: Multi-Party Call Control Service Properties**

There are no additions or exclusions. Nevertheless, for cdma2000 systems the CAMEL data types and service properties are not applicable.

### **Clause 9: Multi-Party Call Control Data Definitions**

There are no additions or exclusions.

### **Annex A (normative): OMG IDL Description of Multi-Party Call Control SCF**

There are no additions or exclusions.

### **Annex B (informative): W3C WSDL Description of Multi-Party Call Control SCF**

There are no additions or exclusions.

[Annex C \(informative\): Java API Description of the Multi-Party Call Control SCF](#)

[There are no additions or exclusions.](#)

Annex ~~D~~E (informative):  
Change history

Change history							
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
Mar 2003	CN_19	NP-030031	007	--	Correction of status of MPCC methods	5.1.0	5.2.0
Mar 2003	CN_19	NP-030031	008	--	Inconsistent description of use of secondary callback	5.1.0	5.2.0
Mar 2003	CN_19	NP-030020	009	--	Correction to TpReleaseCauseSet in Multi Party Call Control IDL	5.1.0	5.2.0
Mar 2003	CN_19	NP-030130	010	--	Correction of definition of the P_MAX_CALLEGS_PER_CALL	5.1.0	5.2.0
Jun 2003	CN_20	NP-030238	011	--	Correction of the description for callEventNotify & reportNotification	5.2.0	5.3.0
Jun 2003	CN_20	NP-030305	012	1	Unclear overlap criteria for rejection of createNotification	5.3.0	6.0.0
Jun 2003	CN_20	NP-030247	013	--	Add support for advanced subscriber presentation	5.3.0	6.0.0

## CHANGE REQUEST

⌘ **29.198-04-4 CR 014** ⌘ rev **-** ⌘ Current version: **6.0.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	⌘ Add OSA API support for 3GPP2 networks		
<b>Source:</b>	⌘ CN5 (liliana.dinale@ericsson.ca)		
<b>Work item code:</b>	⌘ OSA3	<b>Date:</b>	⌘ 31/10/2003
<b>Category:</b>	⌘ <b>B</b>	<b>Release:</b>	⌘ <b>REL-6</b>
	Use <u>one</u> of the following categories: <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)

<b>Reason for change:</b>	⌘ It has been acknowledged that OSA API must shield the complexity of the network, its protocols and specific implementation from the applications. Since the specific underlying network and its protocols are transparent to the application, the OSA API may be deployed in other access networks than 3GPP. One of these networks is 3GPP2. This change is necessary in order to acknowledge OSA API for compatibility with 3GPP2 access networks.
<b>Summary of change:</b>	⌘ Indicate that OSA is applicable to 3GPP2 networks. Provide an Informative Annex that specifies how the OSA API may be used in 3GPP2 networks.
<b>Consequences if not approved:</b>	⌘ Lack of compatibility with other access networks (3GPP2), that may result in market fragmentation.

<b>Clauses affected:</b>	⌘ 2, New Annex D								
<b>Other specs</b>	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;">X</td> <td></td> </tr> </table>	Y	N	X		Other core specifications	⌘ 29.198-1 to 29.198-8 29.198-11 to 29.198-14 29.998-04-4		
Y	N								
X									
<b>affected:</b>	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td></td> <td style="text-align: center;">X</td> </tr> <tr> <td></td> <td style="text-align: center;">X</td> </tr> </table>	Y	N		X		X	Test specifications O&M Specifications	
Y	N								
	X								
	X								
<b>Other comments:</b>	⌘								

**How to create CRs using this form:**

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>.



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## 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

- [1] 3GPP TS 29.198-01: "Open Service Access (OSA) Application Programming Interface (API); Part 1: Overview".
- [2] 3GPP TS 22.127: "Service Requirement for the Open Services Access (OSA); Stage 1".
- [3] 3GPP TS 23.127: "Virtual Home Environment (VHE) / Open Service Access (OSA); Stage 2".
- [4] 3GPP TS 22.002: "Circuit Bearer Services (BS) supported by a Public Land Mobile Network (PLMN)".
- [5] ISO 4217 (1995): "Codes for the representation of currencies and funds".
- [6] 3GPP TS 24.002: "GSM-UMTS Public Land Mobile Network (PLMN) Access Reference Configuration".
- [7] 3GPP TS 22.003: "Circuit Teleservices supported by a Public Land Mobile Network (PLMN)".
- [8] [3GPP2 P.S0001-B: "Wireless IP Network Standard", Version 1.0, September 2000.](#)
- [9] [3GPP2 S.R0037-0: "IP Network Architecture Model for cdma2000 Spread Spectrum Systems", Version 2.0, May 14, 2002.](#)
- [10] [Draft 3GPP2 X.P0013: "IP Network for cdma2000 Spread Spectrum Systems 3GPP2 All IP Core Network, Enhancements For, Multimedia Domain", under development.](#)

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### [Annex D \(informative\): Description of Call Control Sub-part 4: Multimedia call control SCF for 3GPP2 cdma2000 networks](#)

[This annex is intended to define the OSA API Stage 3 interface definitions and it provides the complete OSA specifications. It is an extension of OSA API specifications capabilities to enable operation in cdma2000 systems environment. They are in alignment with 3GPP2 Stage 1 requirements and Stage 2 architecture defined in \[8\], \[9\] and \[10\]. These requirements are expressed as additions to and/or exclusions from the 3GPP Release 6 specification. The information given here is to be used by developers in 3GPP2 cdma2000 network architecture to interpret the 3GPP OSA specifications.](#)

## **General Exceptions**

The terms 3GPP and UMTS are not applicable for the cdma2000 family of standards. Nevertheless these terms are used (3GPP TR 21.905) mostly in the broader sense of "3G Wireless System". If not stated otherwise there are no additions or exclusions required.

CAMEL and CAP mappings are not applicable for cdma2000 systems.

## **Specific Exceptions**

### **Clause 1: Scope**

There are no additions or exclusions.

### **Clause 2: References**

Normative references on 3GPP TS 23.078 and on 3GPP TS 29.078 are not applicable for cdma2000 systems.

### **Clause 3: Definitions and abbreviations**

There are no additions or exclusions.

### **Clause 4: MultiMedia Call Control Service Sequence Diagrams**

There are no additions or exclusions.

### **Clause 5: Class Diagrams**

There are no additions or exclusions.

### **Clause 6: MultiMedia Call Control Service Interface Classes**

There are no additions or exclusions.

### **Clause 7: MultiMedia Call Control Service State Transition Diagrams**

There are no additions or exclusions.

### **Clause 8: Multi-Media Call Control Data Definitions**

There are no additions or exclusions.

### **Annex A (normative): OMG IDL Description of Multi-Media Call Control SCF**

There are no additions or exclusions.

### **Annex B (informative): W3C WSDL Description of Multi-Media Call Control SCF**

There are no additions or exclusions.

### **Annex C (informative): Java API Description of the Call Control SCF**

There are no additions or exclusions.

## Annex ~~D~~E (informative): Change history

Change history							
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
Mar 2003	CN_19	NP-030032	002	--	Correction of status of MMCC methods	5.1.0	5.2.0
Mar 2003	CN_19	NP-030032	003	--	Correction of TpMediaStreamDataTypeRequest	5.1.0	5.2.0
Mar 2003	CN_19	NP-030032	004	--	Addition of missing TpMultiMediaCallIdentifierSet to data types	5.1.0	5.2.0
Jun 2003	CN_20	NP-030238	005	--	Correction of the description for callEventNotify & reportNotification	5.2.0	5.3.0
Jun 2003	CN_20	NP-030243	006	--	Correction to TpAudioCapabilitiesType and TpVideoCapabilitiesType to correctly indicate the required capabilities	5.2.0	5.3.0
Jun 2003	CN_20	NP-030248	007	--	Adding QoS Reporting Functionality to MMCCS	5.3.0	6.0.0
Jun 2003	CN_20	NP-030306	008	1	Correction of the mechanism for Requesting Event Reports in MMCCS	5.3.0	6.0.0

## CHANGE REQUEST

⌘ **29.198-05 CR 042** ⌘ rev **-** ⌘ Current version: **5.4.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	⌘ Add OSA API support for 3GPP2 networks		
<b>Source:</b>	⌘ CN5 (liliana.dinale@ericsson.ca)		
<b>Work item code:</b>	⌘ OSA3	<b>Date:</b>	⌘ 31/10/2003
<b>Category:</b>	⌘ <b>B</b>	<b>Release:</b>	⌘ <b>REL-6</b>
	Use <u>one</u> of the following categories: <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)

<b>Reason for change:</b>	⌘ It has been acknowledged that OSA API must shield the complexity of the network, its protocols and specific implementation from the applications. Since the specific underlying network and its protocols are transparent to the application, the OSA API may be deployed in other access networks than 3GPP. One of these networks is 3GPP2. This change is necessary in order to acknowledge OSA API for compatibility with 3GPP2 access networks.
<b>Summary of change:</b>	⌘ Indicate that OSA is applicable to 3GPP2 networks. Provide an Informative Annex that specifies how the OSA API may be used in 3GPP2 networks.
<b>Consequences if not approved:</b>	⌘ Lack of compatibility with other access networks (3GPP2), that may result in market fragmentation.

<b>Clauses affected:</b>	⌘ 2, New Annex D										
<b>Other specs affected:</b>	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;"></td> </tr> <tr> <td style="text-align: center;"></td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;"></td> <td style="text-align: center;">X</td> </tr> </table> Other core specifications Test specifications O&M Specifications	Y	N	X			X		X	⌘	29.198-1 to 29.198-8 29.198-11 to 29.198-14 29.998-04-4
Y	N										
X											
	X										
	X										
<b>Other comments:</b>	⌘										

**How to create CRs using this form:**

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>.

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## 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

- [1] 3GPP TS 29.198-1: "Open Service Access; Application Programming Interface; Part 1: Overview".
- [2] 3GPP TS 22.127: "Stage 1 Service Requirement for the Open Service Access (OSA) (Release 5)".
- [3] 3GPP TS 23.127: "Virtual Home Environment (Release 5)".
- [4] [3GPP2 P.S0001-B: "Wireless IP Network Standard", Version 1.0, September 2000.](#)
- [5] [3GPP2 S.R0037-0: "IP Network Architecture Model for cdma2000 Spread Spectrum Systems", Version 2.0, May 14, 2002.](#)
- [6] [Draft 3GPP2 X.P0013: "IP Network for cdma2000 Spread Spectrum Systems 3GPP2 All IP Core Network, Enhancements For, Multimedia Domain", under development.](#)

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## [Annex D \(informative\): Description of Generic User Interaction SCF for 3GPP2 cdma2000 networks](#)

[This annex is intended to define the OSA API Stage 3 interface definitions and it provides the complete OSA specifications. It is an extension of OSA API specifications capabilities to enable operation in cdma2000 systems environment. They are in alignment with 3GPP2 Stage 1 requirements and Stage 2 architecture defined in \[4\], \[5\] and \[6\]. These requirements are expressed as additions to and/or exclusions from the 3GPP Release 6 specification. The information given here is to be used by developers in 3GPP2 cdma2000 network architecture to interpret the 3GPP OSA specifications.](#)

### [General Exceptions](#)

[The terms 3GPP and UMTS are not applicable for the cdma2000 family of standards. Nevertheless these terms are used \(3GPP TR 21.905\) mostly in the broader sense of "3G Wireless System". If not stated otherwise there are no additions or exclusions required.](#)

[CAMEL and CAP mappings are not applicable for cdma2000 systems.](#)

## **Specific Exceptions**

### **Clause 1: Scope**

There are no additions or exclusions.

### **Clause 2: References**

Normative references on 3GPP TS 23.078 and on 3GPP TS 29.078 are not applicable for cdma2000 systems.

### **Clause 3: Definitions and abbreviations**

There are no additions or exclusions.

### **Clause 4: Generic and Call User Interaction SCF**

There are no additions or exclusions.

### **Clause 5: Class Diagrams**

The sequence diagrams are included as implementation examples. Individual specifications for the sequences for Alarm Call, Call Barring 1, Network Controlled Notifications, Prepaid and Pre-Paid with Advice of Charge (AoC) have yet to be specified. In particular, there are specifications for Call Barring, Prepaid and Pre-Paid with AoC that are implemented in cdma2000 networks differently than shown in these sequence diagrams. These are for further study and are not part of this release. There are no additions or exclusions to this section except the Caveat stated above.

### **Clause 6: Class Diagrams**

There are no additions or exclusions.

### **Clause 7: The Service Interface Specifications**

There are no additions or exclusions.

### **Clause 8: Generic User Interaction Interface Classes Definitions**

There are no additions or exclusions.

### **Clause 9: State Transition Diagrams**

There are no additions or exclusions.

### **Clause 10: Service Properties**

There are no additions or exclusions.

### **Clause 11: Data Definitions**

There are no additions or exclusions.

### **Clause 12: Exception Classes**

There are no additions or exclusions.

### **Annex A (normative): OMG IDL Description of Generic User Interaction SCF**

There are no additions or exclusions.

### **Annex B (informative): W3C WSDL Description of Generic User Interaction SCF**

[There are no additions or exclusions.](#)

[Annex C \(informative\): Java API Description of Generic User Interaction SCF](#)

[There are no additions or exclusions.](#)

## Annex ~~D~~E (informative): Change history

Change history							
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
Mar 2001	CN_11	NP-010134	047	--	CR 29.198: for moving TS 29.198 from R99 to Rel 4 (N5-010158)	3.2.0	4.0.0
Jun 2001	CN_12	NP-010330	001	--	Corrections to OSA API Rel4	4.0.0	4.1.0
Sep 2001	CN_13	NP-010468	002	--	Changing references to JAIN	4.1.0	4.2.0
Dec 2001	CN_14	NP-010598	003	--	Replace Out Parameters with Return Types	4.2.0	4.3.0
Dec 2001	CN_14	NP-010598	004	--	Correction of description of sendInfoRes()	4.2.0	4.3.0
Dec 2001	CN_14	NP-010598	005	--	Correction to handling of deassign on related object	4.2.0	4.3.0
Dec 2001	CN_14	NP-010598	006	--	Correction to Exceptions Raised in UI	4.2.0	4.3.0
Dec 2001	CN_14	NP-010598	007	--	Correction to values of TpUIInfoType	4.2.0	4.3.0
Mar 2002	CN_15	NP-020107	008	--	Add P_INVALID_INTERFACE_TYPE exception to IpService.setCallback() and IpService.setCallbackWithSessionID()	4.3.0	4.4.0
Jun 2002	CN_16	NP-020181	009	--	Addition of support for Java API technology realisation	4.4.0	5.0.0
Jun 2002	CN_16	NP-020189	010	--	Improve the vague description of P_ID_NOT_FOUND	4.4.0	5.0.0
Jun 2002	CN_16	NP-020182	011	--	Addition of support for WSDL realisation	4.4.0	5.0.0
Jun 2002	CN_16	NP-020189	012	--	Detach call leg before playing announcement or collecting digits	4.4.0	5.0.0
Jun 2002	CN_16	NP-020189	013	--	Delete P_INVALID_CRITERIA from sendInfoAndCollectReq()	4.4.0	5.0.0
Jun 2002	CN_16	NP-020183	014	--	Addition of Support for Network Controlled Notifications UI	4.4.0	5.0.0
Jun 2002	CN_16	NP-020189	015	--	Correcting erroneous description of UI behaviour in call control	4.4.0	5.0.0
Sep 2002	CN_17	NP-020432	018	--	Add text to clarify requirements on support of methods	5.0.0	5.1.0
Sep 2002	CN_17	NP-020432	019	--	Correction on use of NULL in User Interaction API	5.0.0	5.1.0
Sep 2002	CN_17	NP-020432	020	--	Correction to TpUIInfo data type to support binary data for SMS services	5.0.0	5.1.0
Sep 2002	CN_17	NP-020395	021		Add text to clarify relationship between 3GPP and ETSI/Parlay OSA specifications	5.0.0	5.1.0
Mar 2003	CN_19	NP-030021	023	--	Correction to User Interaction Prepaid Sequence Diagrams	5.1.0	5.2.0
Mar 2003	CN_19	NP-030021	025	--	Correction to getNotification to remove P_INVALID_CRITERIA exception	5.1.0	5.2.0
Mar 2003	CN_19	NP-030021	028	--	Addition of status of methods to User Interaction interfaces	5.1.0	5.2.0
Mar 2003	CN_19	NP-030021	031	--	Corrections to User Interaction	5.1.0	5.2.0
Mar 2003	CN_19	NP-030021	033	--	Correction of User Interaction Event Notification to support non text encodings	5.1.0	5.2.0
Mar 2003	CN_19	NP-030033	029	--	Inconsistent description of use of secondary callback	5.1.0	5.2.0
Jun 2003	CN_20	NP-030238	035	--	Correction of the description for callEventNotify & reportNotification	5.2.0	5.3.0
Jun 2003	CN_20	NP-030244	036	--	Clarify IpUI sendInfoReq()	5.2.0	5.3.0
Jun 2003	CN_20	NP-030244	037	--	Update TpUIInfo for consistency with GMS capabilities	5.2.0	5.3.0
Jun 2003	CN_20	NP-030299	038	1	Specifying the origin of a GUI message	5.2.0	5.3.0

## CHANGE REQUEST

⌘ **29.198-06 CR 024** ⌘ rev **-** ⌘ Current version: **6.0.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	⌘ Add OSA API support for 3GPP2 networks		
<b>Source:</b>	⌘ CN5 (liliana.dinale@ericsson.ca)		
<b>Work item code:</b>	⌘ OSA3	<b>Date:</b>	⌘ 31/10/2003
<b>Category:</b>	⌘ <b>B</b>	<b>Release:</b>	⌘ REL-6
	Use <u>one</u> of the following categories: <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)

<b>Reason for change:</b>	⌘ It has been acknowledged that OSA API must shield the complexity of the network, its protocols and specific implementation from the applications. Since the specific underlying network and its protocols are transparent to the application, the OSA API may be deployed in other access networks than 3GPP. One of these networks is 3GPP2. This change is necessary in order to acknowledge OSA API for compatibility with 3GPP2 access networks.
<b>Summary of change:</b>	⌘ Indicate that OSA is applicable to 3GPP2 networks. Provide an Informative Annex that specifies how the OSA API may be used in 3GPP2 networks.
<b>Consequences if not approved:</b>	⌘ Lack of compatibility with other access networks (3GPP2), that may result in market fragmentation.

<b>Clauses affected:</b>	⌘ 2, New Annex D						
<b>Other specs affected:</b>	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 20px;">Y</td> <td style="width: 20px;">N</td> </tr> <tr> <td style="width: 20px;">X</td> <td style="width: 20px;"></td> </tr> </table> Other core specifications	Y	N	X		⌘	29.198-1 to 29.198-8 29.198-11 to 29.198-14 29.998-04-4
Y	N						
X							
	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 20px;"></td> <td style="width: 20px;">X</td> </tr> <tr> <td style="width: 20px;">X</td> <td style="width: 20px;"></td> </tr> </table> Test specifications O&M Specifications		X	X			
	X						
X							
<b>Other comments:</b>	⌘						

**How to create CRs using this form:**

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>.



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## 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

- [1] 3GPP TS 29.198-01: "Open Service Access (OSA) Application Programming Interface (API); Part 1: Overview".
- [2] 3GPP TS 22.127: "Service Requirement for the Open Services Access (OSA); Stage 1".
- [3] 3GPP TS 23.127: "Virtual Home Environment (VHE) / Open Service Access (OSA); Stage 2".
- [4] 3GPP TS 29.002: "Mobile Application Part (MAP) specification".
- [5] [3GPP2 P.S0001-B: "Wireless IP Network Standard", Version 1.0, September 2000.](#)
- [6] [3GPP2 S.R0037-0: "IP Network Architecture Model for cdma2000 Spread Spectrum Systems", Version 2.0, May 14, 2002.](#)
- [7] [Draft 3GPP2 X.P0013: "IP Network for cdma2000 Spread Spectrum Systems 3GPP2 All IP Core Network, Enhancements For, Multimedia Domain", under development.](#)

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## [Annex D \(informative\): Description of Mobility SCF for 3GPP2 cdma2000 networks](#)

[This annex is intended to define the OSA API Stage 3 interface definitions and it provides the complete OSA specifications. It is an extension of OSA API specifications capabilities to enable operation in cdma2000 systems environment. They are in alignment with 3GPP2 Stage 1 requirements and Stage 2 architecture defined in \[5\], \[6\] and \[7\]. These requirements are expressed as additions to and/or exclusions from the 3GPP Release 6 specification. The information given here is to be used by developers in 3GPP2 cdma2000 network architecture to interpret the 3GPP OSA specifications.](#)

### [General Exceptions](#)

[The terms 3GPP and UMTS are not applicable for the cdma2000 family of standards. Nevertheless these terms are used \(3GPP TR 21.905\) mostly in the broader sense of "3G Wireless System". If not stated otherwise there are no additions or exclusions required.](#)

[CAMEL and CAP mappings are not applicable for cdma2000 systems.](#)

### [Specific Exceptions](#)

#### [Clause 1: Scope](#)

There are no additions or exclusions.

#### **Clause 2: References**

Normative references on 3GPP TS 23.078 and on 3GPP TS 29.078 are not applicable for cdma2000 systems.

#### **Clause 3: Definitions and abbreviations**

There are no additions or exclusions.

#### **Clause 4: Mobility SCF**

There are no additions or exclusions. UL-User Location UMTS term may be mapped onto LCS-Location Services cdma2000 term. CAMEL is not applicable for cdma2000 systems.

#### **Clause 5: Sequence Diagrams**

There are no additions. User Location Camel Sequence Diagrams are not applicable for cdma2000 systems.

#### **Clause 6 Class Diagrams**

There are no additions. User Location Camel Class Diagrams are not applicable for cdma2000 systems.

#### **Clause 7: The Service Interface Specifications**

There are no additions or exclusions.

#### **Clause 8: Mobility Interface Classes**

There are no additions. User Location Camel Interface Classes are not applicable for cdma2000 systems

#### **Clause 9: State Transition Diagrams**

Since CAMEL protocol is not applicable for cdma2000 systems, User Location Camel state transition diagrams are not applicable for cdma2000 systems.

#### **Clause 10: Service Properties**

Since CAMEL protocol is not applicable for cdma2000 systems, an SCS shall indicate support for the CAMEL feature through service properties. For cdma2000 systems the service properties shall be disabled (CAMEL shall be turned always off in the case of the 3GPP2 networks; e.g.: UserLocationCamel shall be set to false).

#### **Clause 11: Data Definitions**

There are no additions. UserLocationCamel data definitions are not applicable for cdma2000 systems.

#### **Clause 12: Exception Classes**

There are no additions or exclusions.

#### **Annex A (normative): OMG IDL Description of Mobility SCF**

There are no additions or exclusions.

#### **Annex B (informative): W3C WSDL Description of Mobility SCF**

There are no additions or exclusions.

#### **Annex C (informative): Java API Description of Mobility SCF**

There are no additions or exclusions.

## Annex ~~D~~E (informative): Change history

Change history							
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
Mar 2001	CN_11	NP-010134	047	-	CR 29.198: for moving TS 29.198 from R99 to Rel 4 (N5-010158)	3.2.0	4.0.0
Jun 2001	CN_12	NP-010330	001	--	Corrections to OSA API Rel4	4.0.0	4.1.0
Jul 2001	--	--	--	--	29198-06-410.zip archive was packaged with the wrong accompanying IDL zip file, which should be mm.idl and not Call Control IDLs (04).	4.1.0	4.1.1
Sep 2001	CN_13	NP-010520	002	--	Changing references to JAIN	4.1.1	4.2.0
Sep 2001	CN_13	NP-010520	003	--	Introduction of missing mobility exceptions	4.1.1	4.2.0
Oct 2001	--	--	--	--	Correction to ToC	4.2.0	4.2.1
Dec 2001	CN_14	NP-010599	004	--	Replace Out Parameters with Return Types	4.2.1	4.3.0
Dec 2001	CN_14	NP-010599	005	--	Methods accepting an interface as a parameter need to be able to raise P_INVALID_INTERFACE_TYPE	4.2.1	4.3.0
Dec 2001	CN_14	NP-010599	006	--	Correction of references to 3GPP specifications	4.2.1	4.3.0
Dec 2001	CN_14	NP-010599	007	--	Correction to callback interface reference in method IpTriggeredUserLocation.triggeredLocationReportingStartReq	4.2.1	4.3.0
Mar 2002	CN_15	NP-020108	008	--	Add P_INVALID_INTERFACE_TYPE exception to IpService.setCallback() and IpService.setCallbackWithSessionID()	4.3.0	4.4.0
Jun 2002	CN_16	NP-020181	009	--	Addition of support for Java API technology realisation	4.4.0	5.0.0
Jun 2002	CN_16	NP-020182	010	--	Addition of support for WSDL realisation	4.4.0	5.0.0
Jun 2002	CN_16	NP-020190	011	--	Delete the repetitive description of P_APPLICATION_NOT_ACTIVATED and other exceptions	4.4.0	5.0.0
Jun 2002	CN_16	NP-020190	012	--	Correcting type of assignmentID parameters from TpSessionID to TpAssignmentID	4.4.0	5.0.0
Jun 2002	CN_16	NP-020190	013	--	Correcting erroneous references to Service Factory	4.4.0	5.0.0
Sep 2002	CN_17	NP-020433	014	--	Remove all parameter error and network error sequence diagrams	5.0.0	5.1.0
Sep 2002	CN_17	NP-020433	015	--	Removal of unnecessary exception from IpUserLocation.LocationReportReq(), IpUserLocation.extendedLocationReportReq(), IpUserLocation.periodicLocationReportingStartReq()	5.0.0	5.1.0
Sep 2002	CN_17	NP-020433	016	--	Remove unusable exceptions from IpUserLocationCamel.periodicLocationReportingStartReq()	5.0.0	5.1.0
Sep 2002	CN_17	NP-020433	017	--	Add text to clarify requirements on support of methods	5.0.0	5.1.0
Sep 2002	CN_17	NP-020395	018	--	Add text to clarify relationship between 3GPP and ETSI/Parlay OSA specifications	5.0.0	5.1.0
Mar 2003	CN_19	NP-030022	020	--	Addition of status of methods to Mobility interfaces	5.1.0	5.2.0
Jun 2003	CN_20	NP-030249	021	--	Add methods to prevent unnecessary strict requirements on application persistency for Mobility	5.2.0	6.0.0
Jun 2003	CN_20	NP-030249	022	--	Extension to User Status	5.2.0	6.0.0

## CHANGE REQUEST

⌘ **29.198-07 CR 015** ⌘ rev **-** ⌘ Current version: **5.4.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	⌘ Add OSA API support for 3GPP2 networks		
<b>Source:</b>	⌘ CN5 (liliana.dinale@ericsson.ca)		
<b>Work item code:</b>	⌘ OSA3	<b>Date:</b>	⌘ 31/10/2003
<b>Category:</b>	⌘ <b>B</b>	<b>Release:</b>	⌘ <b>REL-6</b>
	Use <u>one</u> of the following categories: <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)

<b>Reason for change:</b>	⌘ It has been acknowledged that OSA API must shield the complexity of the network, its protocols and specific implementation from the applications. Since the specific underlying network and its protocols are transparent to the application, the OSA API may be deployed in other access networks than 3GPP. One of these networks is 3GPP2. This change is necessary in order to acknowledge OSA API for compatibility with 3GPP2 access networks.
<b>Summary of change:</b>	⌘ Indicate that OSA is applicable to 3GPP2 networks. Provide an Informative Annex that specifies how the OSA API may be used in 3GPP2 networks.
<b>Consequences if not approved:</b>	⌘ Lack of compatibility with other access networks (3GPP2), that may result in market fragmentation.

<b>Clauses affected:</b>	⌘ 2, New Annex D								
<b>Other specs</b>	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;">X</td> <td></td> </tr> </table>	Y	N	X		Other core specifications	⌘ 29.198-1 to 29.198-8 29.198-11 to 29.198-14 29.998-04-4		
Y	N								
X									
<b>affected:</b>	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td></td> <td style="text-align: center;">X</td> </tr> <tr> <td></td> <td style="text-align: center;">X</td> </tr> </table>	Y	N		X		X	Test specifications O&M Specifications	
Y	N								
	X								
	X								
<b>Other comments:</b>	⌘								

**How to create CRs using this form:**

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>.

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## 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

- [1] 3GPP TS 29.198-1 "Open Service Access; Application Programming Interface; Part 1: Overview".
- [2] 3GPP TS 22.127: "Stage 1 Service Requirement for the Open Service Access (OSA) (Release 5)".
- [3] 3GPP TS 23.127: "Virtual Home Environment (Release 5)".
- [4] World Wide Web Consortium "Composite Capability/Preference Profiles (CC/PP): A user side framework for content negotiation" (<http://www.w3.org/TR/NOTE-CCPP/>).
- [5] Wireless Application Protocol (WAP), Version 2.0: "User Agent Profiling Specification" (WAP-248) (<http://www.wapforum.org/what/technical.htm>).
- [6] [3GPP2 P.S0001-B: "Wireless IP Network Standard", Version 1.0, September 2000.](#)
- [7] [3GPP2 S.R0037-0: "IP Network Architecture Model for cdma2000 Spread Spectrum Systems", Version 2.0, May 14, 2002.](#)
- [8] [Draft 3GPP2 X.P0013: "IP Network for cdma2000 Spread Spectrum Systems 3GPP2 All IP Core Network, Enhancements For, Multimedia Domain", under development.](#)

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### [Annex D \(informative\): Description of Terminal Capabilities SCF for 3GPP2 cdma2000 networks](#)

[This annex is intended to define the OSA API Stage 3 interface definitions and it provides the complete OSA specifications. It is an extension of OSA API specifications capabilities to enable operation in cdma2000 systems environment. They are in alignment with 3GPP2 Stage 1 requirements and Stage 2 architecture defined in \[6\], \[7\] and \[8\]. These requirements are expressed as additions to and/or exclusions from the 3GPP Release 6 specification. The information given here is to be used by developers in 3GPP2 cdma2000 network architecture to interpret the 3GPP OSA specifications.](#)

#### [General Exceptions](#)

[The terms 3GPP and UMTS are not applicable for the cdma2000 family of standards. Nevertheless these terms are used \(3GPP TR 21.905\) mostly in the broader sense of "3G Wireless System". If not stated otherwise there are no additions or exclusions required.](#)

CAMEL and CAP mappings are not applicable for cdma2000 systems.

## **Specific Exceptions**

### **Clause 1: Scope**

There are no additions or exclusions.

### **Clause 2: References**

Normative references on 3GPP TS 23.078 and on 3GPP TS 29.078 are not applicable for cdma2000 systems.

### **Clause 3: Definitions and abbreviations**

There are no additions or exclusions.

### **Clause 4: Terminal Capabilities SCF**

There are no additions or exclusions.

### **Clause 5: Sequence Diagrams**

There are no additions or exclusions.

### **Clause 6: Class Diagrams**

There are no additions or exclusions.

### **Clause 7: The Service Interface Specifications**

There are no additions or exclusions.

### **Clause 8: Terminal Capabilities Interface Classes**

There are no additions or exclusions.

### **Clause 9: State Transition Diagrams**

There are no additions or exclusions.

### **Clause 10: Service Properties**

There are no additions or exclusions.

### **Clause 11: Terminal Capabilities Data Definitions**

There are no exclusions. Additions for Data types for cdma2000 systems are for further study and are not part of this release. (E.g.: terminalIdentity identifies the terminal. It may be a logical address known by the WAP Gateway/PushProxy or any other relevant network elements in cdma2000 network, i.e. HSS).

### **Clause 12: Exception Classes**

There are no additions or exclusions.

### **Annex A (normative): OMG IDL Description of Terminal Capabilities SCF**

There are no additions or exclusions.

### **Annex B (informative): W3C WSDL Description of Terminal Capabilities SCF**

There are no additions or exclusions.

### **Annex C (informative): Java API Description of Terminal Capabilities SCF**

[There are no additions or exclusions.](#)

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## Annex ~~D~~E (informative): Change history

## CHANGE REQUEST

⌘ **29.198-08 CR 027** ⌘ rev **-** ⌘ Current version: **5.4.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	⌘ Add OSA API support for 3GPP2 networks		
<b>Source:</b>	⌘ CN5 (liliana.dinale@ericsson.ca)		
<b>Work item code:</b>	⌘ OSA3	<b>Date:</b>	⌘ 31/10/2003
<b>Category:</b>	⌘ <b>B</b>	<b>Release:</b>	⌘ REL-6
	Use <u>one</u> of the following categories: <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)

<b>Reason for change:</b>	⌘ It has been acknowledged that OSA API must shield the complexity of the network, its protocols and specific implementation from the applications. Since the specific underlying network and its protocols are transparent to the application, the OSA API may be deployed in other access networks than 3GPP. One of these networks is 3GPP2. This change is necessary in order to acknowledge OSA API for compatibility with 3GPP2 access networks.
<b>Summary of change:</b>	⌘ Indicate that OSA is applicable to 3GPP2 networks. Provide an Informative Annex that specifies how the OSA API may be used in 3GPP2 networks.
<b>Consequences if not approved:</b>	⌘ Lack of compatibility with other access networks (3GPP2), that may result in market fragmentation.

<b>Clauses affected:</b>	⌘ 2, New Annex C										
<b>Other specs affected:</b>	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 20px;">Y</td> <td style="width: 20px;">N</td> </tr> <tr> <td style="width: 20px;">X</td> <td style="width: 20px;"></td> </tr> <tr> <td style="width: 20px;"></td> <td style="width: 20px;">X</td> </tr> <tr> <td style="width: 20px;"></td> <td style="width: 20px;">X</td> </tr> </table> Other core specifications Test specifications O&M Specifications	Y	N	X			X		X	⌘	29.198-1 to 29.198-7 29.198-11 to 29.198-14 29.998-04-4
Y	N										
X											
	X										
	X										
<b>Other comments:</b>	⌘										

**How to create CRs using this form:**

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>.



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## 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

- [1] 3GPP TS 29.198-1 "Open Service Access; Application Programming Interface; Part 1: Overview".
- [2] 3GPP TS 22.127: "Stage 1 Service Requirement for the Open Service Access (OSA) (Release 5)".
- [3] 3GPP TS 23.127: "Virtual Home Environment (Release 5)".
- [4] ISO 4217 (1995): "Codes for the representation of currencies and funds".
- [5] [3GPP2 P.S0001-B: "Wireless IP Network Standard", Version 1.0, September 2000.](#)
- [6] [3GPP2 S.R0037-0: "IP Network Architecture Model for cdma2000 Spread Spectrum Systems", Version 2.0, May 14, 2002.](#)
- [7] [Draft 3GPP2 X.P0013: "IP Network for cdma2000 Spread Spectrum Systems 3GPP2 All IP Core Network, Enhancements For, Multimedia Domain", under development.](#)

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## [Annex C \(informative\): Description of Data Session Control for 3GPP2 cdma2000 networks](#)

[This annex is intended to define the OSA API Stage 3 interface definitions and it provides the complete OSA specifications. It is an extension of OSA API specifications capabilities to enable operation in cdma2000 systems environment. They are in alignment with 3GPP2 Stage 1 requirements and Stage 2 architecture defined in \[5\], \[6\] and \[7\]. These requirements are expressed as additions to and/or exclusions from the 3GPP Release 6 specification. The information given here is to be used by developers in 3GPP2 cdma2000 network architecture to interpret the 3GPP OSA specifications.](#)

### [General Exceptions](#)

[The term UMTS is not applicable for the cdma2000 family of standards. Nevertheless these terms are used \(3GPP TR 21.905\) mostly in the broader sense of "3G Wireless System". If not stated otherwise there are no additions or exclusions required.](#)

[CAMEL and CAP mappings are not applicable for cdma2000 systems.](#)

## **Specific Exceptions**

### **Clause 1: Scope**

There are no additions or exclusions.

### **Clause 2: References**

Normative references on 3GPP TS 23.078 and on 3GPP TS 29.078 are not applicable for cdma2000 systems.

### **Clause 3: Definitions and abbreviations**

There are no additions or exclusions.

### **Clause 4: Data Session Control SCF**

There are no additions or exclusions. GPRS and PDP context are not applicable for cdma2000 systems.

### **Clause 5: Sequence Diagrams**

There are no additions or exclusions. GPRS and PDP context are not applicable for cdma2000 systems.

### **Clause 6 Class Diagrams**

There are no additions or exclusions. GPRS and PDP context are not applicable for cdma2000 systems.

### **Clause 7: The Service Interface Specifications**

There are no additions or exclusions. GPRS and PDP context are not applicable for cdma2000 systems.

### **Clause 8: Data Session Control Interface Classes**

There are no additions or exclusions. GPRS and PDP context are not applicable for cdma2000 systems.

### **Clause 9: State Transition Diagrams**

There are no additions or exclusions. GPRS and PDP context are not applicable for cdma2000 systems.

### **Clause 10: Data Session Control Service Properties**

There are no additions or exclusions. GPRS and PDP context are not applicable for cdma2000 systems.

### **Clause 11: Data Definitions**

There are no additions or exclusions. GPRS and PDP context are not applicable for cdma2000 systems.

### **Annex A (normative):OMG IDL Description of Data Session Control SCF**

There are no additions or exclusions.

### **Annex B (informative): W3C WSDL Description of Data Session Control SCF**

There are no additions or exclusions.

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Annex **DG** (informative):  
Change history

## CHANGE REQUEST

⌘ **29.198-11 CR 022** ⌘ rev **-** ⌘ Current version: **5.3.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	⌘ Add OSA API support for 3GPP2 networks		
<b>Source:</b>	⌘ CN5 (liliana.dinale@ericsson.ca)		
<b>Work item code:</b>	⌘ OSA3	<b>Date:</b>	⌘ 31/10/2003
<b>Category:</b>	⌘ <b>B</b>	<b>Release:</b>	⌘ REL-6
	Use <u>one</u> of the following categories: <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)

<b>Reason for change:</b>	⌘ It has been acknowledged that OSA API must shield the complexity of the network, its protocols and specific implementation from the applications. Since the specific underlying network and its protocols are transparent to the application, the OSA API may be deployed in other access networks than 3GPP. One of these networks is 3GPP2. This change is necessary in order to acknowledge OSA API for compatibility with 3GPP2 access networks.
<b>Summary of change:</b>	⌘ Indicate that OSA is applicable to 3GPP2 networks. Provide an Informative Annex that specifies how the OSA API may be used in 3GPP2 networks.
<b>Consequences if not approved:</b>	⌘ Lack of compatibility with other access networks (3GPP2), that may result in market fragmentation.

<b>Clauses affected:</b>	⌘ 2, New Annex C						
<b>Other specs</b>	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 20px;">Y</td> <td style="width: 20px;">N</td> </tr> <tr> <td>X</td> <td></td> </tr> </table> Other core specifications	Y	N	X		⌘	29.198-1 to 29.198-8 29.198-12 to 29.198-14 29.998-04-4
Y	N						
X							
<b>affected:</b>	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 20px;"></td> <td style="width: 20px;">X</td> </tr> <tr> <td></td> <td>X</td> </tr> </table> Test specifications O&M Specifications		X		X		
	X						
	X						
<b>Other comments:</b>	⌘						

**How to create CRs using this form:**

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>.

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## 2 References

The following documents contain provisions, which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

- [1] 3GPP TS 29.198-1 "Open Service Access; Application Programming Interface; Part 1: Overview".
- [2] 3GPP TS 22.127: "Stage 1 Service Requirement for the Open Service Access (OSA) (Release 5)".
- [3] 3GPP TS 23.127: "Virtual Home Environment (Release 5)".
- [4] ISO 4217 (1995): "Codes for the representation of currencies and funds".
- [5] [3GPP2 P.S0001-B: "Wireless IP Network Standard", Version 1.0, September 2000.](#)
- [6] [3GPP2 S.R0037-0: "IP Network Architecture Model for cdma2000 Spread Spectrum Systems", Version 2.0, May 14, 2002.](#)
- [7] [Draft 3GPP2 X.P0013: "IP Network for cdma2000 Spread Spectrum Systems 3GPP2 All IP Core Network, Enhancements For, Multimedia Domain", under development.](#)

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## [Annex C \(informative\): Description of Account Management for 3GPP2 cdma2000 networks](#)

[This annex is intended to define the OSA API Stage 3 interface definitions and it provides the complete OSA specifications. It is an extension of OSA API specifications capabilities to enable operation in cdma2000 systems environment. They are in alignment with 3GPP2 Stage 1 requirements and Stage 2 architecture defined in \[5\], \[6\] and \[7\]. These requirements are expressed as additions to and/or exclusions from the 3GPP Release 6 specification. The information given here is to be used by developers in 3GPP2 cdma2000 network architecture to interpret the 3GPP OSA specifications.](#)

### [General Exceptions](#)

[The term UMTS is not applicable for the cdma2000 family of standards. Nevertheless these terms are used \(3GPP TR 21.905\) mostly in the broader sense of "3G Wireless System". If not stated otherwise there are no additions or exclusions required.](#)

[CAMEL and CAP mappings are not applicable for cdma2000 systems.](#)

### [Specific Exceptions](#)

#### [Clause 1: Scope](#)

There are no additions or exclusions.

#### **Clause 2: References**

Normative references on 3GPP TS 23.078 and on 3GPP TS 29.078 are not applicable for cdma2000 systems.

#### **Clause 3: Definitions and abbreviations**

There are no additions or exclusions.

#### **Clause 4: Account Management SCF**

There are no additions or exclusions.

#### **Clause 5: Sequence Diagrams**

There are no additions or exclusions.

#### **Clause 6: Class Diagrams**

There are no additions or exclusions.

#### **Clause 7: The Service Interface Specifications**

There are no additions or exclusions.

#### **Clause 8: Account Management Interface Classes**

There are no additions or exclusions.

#### **Clause 9: State Transition Diagrams**

There are no additions or exclusions.

#### **Clause 10: Account Management Service Properties**

There are no additions or exclusions.

#### **Clause 11: Data Definitions**

There are no additions or exclusions.

#### **Clause 12: Exception Classes**

There are no additions or exclusions.

#### **Annex A (normative):OMG IDL Description of Account Management SCF**

There are no additions or exclusions.

#### **Annex B (informative): W3C WSDL Description of Account Management SCF**

There are no additions or exclusions.

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Annex ~~E~~D (informative):  
Change history

## CHANGE REQUEST

⌘ **29.198-12 CR 025** ⌘ rev **-** ⌘ Current version: **5.3.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	⌘ Add OSA API support for 3GPP2 networks		
<b>Source:</b>	⌘ CN5 (liliana.dinale@ericsson.ca)		
<b>Work item code:</b>	⌘ OSA3	<b>Date:</b>	⌘ 31/10/2003
<b>Category:</b>	⌘ <b>B</b>	<b>Release:</b>	⌘ REL-6
	Use <u>one</u> of the following categories: <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)

<b>Reason for change:</b>	⌘ It has been acknowledged that OSA API must shield the complexity of the network, its protocols and specific implementation from the applications. Since the specific underlying network and its protocols are transparent to the application, the OSA API may be deployed in other access networks than 3GPP. One of these networks is 3GPP2. This change is necessary in order to acknowledge OSA API for compatibility with 3GPP2 access networks.
<b>Summary of change:</b>	⌘ Indicate that OSA is applicable to 3GPP2 networks. Provide an Informative Annex that specifies how the OSA API may be used in 3GPP2 networks.
<b>Consequences if not approved:</b>	⌘ Lack of compatibility with other access networks (3GPP2), that may result in market fragmentation.

<b>Clauses affected:</b>	⌘ 2, New Annex D						
<b>Other specs</b>	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 20px;">Y</td> <td style="width: 20px;">N</td> </tr> <tr> <td style="width: 20px;">X</td> <td style="width: 20px;"></td> </tr> </table>	Y	N	X		Other core specifications	⌘ 29.198-1 to 29.198-8 29.198-11 29.198-13 to 29.198-14 29.998-04-4
Y	N						
X							
<b>affected:</b>	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 20px;"></td> <td style="width: 20px;">X</td> </tr> <tr> <td style="width: 20px;"></td> <td style="width: 20px;">X</td> </tr> </table>		X		X	Test specifications O&M Specifications	
	X						
	X						
<b>Other comments:</b>	⌘						

**How to create CRs using this form:**

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm> with

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## 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

- [1] 3GPP TS 29.198-1 "Open Service Access; Application Programming Interface; Part 1: Overview".
- [2] 3GPP TS 22.127: "Stage 1 Service Requirement for the Open Service Access (OSA) (Release 5)".
- [3] 3GPP TS 23.127: "Virtual Home Environment (Release 5)".
- [4] World Wide Web Consortium Composite Capability/Preference Profiles (CC/PP): A user side framework for content negotiation ([www.w3.org](http://www.w3.org)).
- [5] Wireless Application Protocol (WAP), Version 1.2, UAProf Specification ([www.wapforum.org](http://www.wapforum.org)).
- [6] ISO 4217 (1995): "Codes for the representation of currencies and funds".
- [7] [3GPP2 P.S0001-B: "Wireless IP Network Standard", Version 1.0, September 2000.](#)
- [8] [3GPP2 S.R0037-0: "IP Network Architecture Model for cdma2000 Spread Spectrum Systems", Version 2.0, May 14, 2002.](#)
- [9] [Draft 3GPP2 X.P0013: "IP Network for cdma2000 Spread Spectrum Systems 3GPP2 All IP Core Network, Enhancements For, Multimedia Domain", under development.](#)

---

### [Annex D \(informative\): Description of Charging for 3GPP2 cdma2000 networks](#)

[This annex is intended to define the OSA API Stage 3 interface definitions and it provides the complete OSA specifications. It is an extension of OSA API specifications capabilities to enable operation in cdma2000 systems environment. They are in alignment with 3GPP2 Stage 1 requirements and Stage 2 architecture defined in \[7\], \[8\] and \[9\]. These requirements are expressed as additions to and/or exclusions from the 3GPP Release 6 specification. The information given here is to be used by developers in 3GPP2 cdma2000 network architecture to interpret the 3GPP OSA specifications.](#)

#### [General Exceptions](#)

[The term UMTS is not applicable for the cdma2000 family of standards. Nevertheless these terms are used \(3GPP TR 21.905\) mostly in the broader sense of "3G Wireless System". If not stated otherwise there are no additions or exclusions required.](#)

[CAMEL and CAP mappings are not applicable for cdma2000 systems.](#)

## **Specific Exceptions**

### **Clause 1: Scope**

There are no additions or exclusions.

### **Clause 2: References**

Normative references on 3GPP TS 23.078 and on 3GPP TS 29.078 are not applicable for cdma2000 systems.

### **Clause 3: Definitions and abbreviations**

There are no additions or exclusions.

### **Clause 4: Charging SCF**

There are no additions or exclusions.

### **Clause 5: Sequence Diagrams**

There are no additions or exclusions.

### **Clause 6: Class Diagrams**

There are no additions or exclusions.

### **Clause 7: The Service Interface Specifications**

There are no additions or exclusions.

### **Clause 8: Charging Interface Classes**

There are no additions or exclusions.

### **Clause 9: State Transition Diagrams**

There are no additions or exclusions.

### **Clause 10: Content Based Charging Service Properties**

There are no additions or exclusions.

### **Clause 11: Data Definitions**

There are no additions or exclusions.

### **Clause 12: Exception Classes**

There are no additions or exclusions.

### **Annex A (normative):OMG IDL Description of Charging SCF**

There are no additions or exclusions.

### **Annex B (informative): W3C WSDL Description of Charging SCF**

There are no additions or exclusions.

### **Annex C (informative): Java API Description of the Charging SCF**

There are no additions or exclusions.

---

## **Annex ~~D~~-E (informative): Change history**



## CHANGE REQUEST

⌘ **29.198-13 CR 005** ⌘ rev **-** ⌘ Current version: **6.0.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	⌘ Add OSA API support for 3GPP2 networks		
<b>Source:</b>	⌘ CN5 (liliana.dinale@ericsson.ca)		
<b>Work item code:</b>	⌘ OSA3	<b>Date:</b>	⌘ 31/10/2003
<b>Category:</b>	⌘ <b>B</b>	<b>Release:</b>	⌘ <b>REL-6</b>
	Use <u>one</u> of the following categories: <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)

<b>Reason for change:</b>	⌘ It has been acknowledged that OSA API must shield the complexity of the network, its protocols and specific implementation from the applications. Since the specific underlying network and its protocols are transparent to the application, the OSA API may be deployed in other access networks than 3GPP. One of these networks is 3GPP2. This change is necessary in order to acknowledge OSA API for compatibility with 3GPP2 access networks.
<b>Summary of change:</b>	⌘ Indicate that OSA is applicable to 3GPP2 networks. Provide an Informative Annex that specifies how the OSA API may be used in 3GPP2 networks.
<b>Consequences if not approved:</b>	⌘ Lack of compatibility with other access networks (3GPP2), that may result in market fragmentation.

<b>Clauses affected:</b>	⌘ 2, New Annex B						
<b>Other specs</b>	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr><td>Y</td><td>N</td></tr> <tr><td>X</td><td></td></tr> </table>	Y	N	X		Other core specifications	⌘ 29.198-1 to 29.198-8 29.198-11 to 29.198-12 29.198-14 29.998-04-4
Y	N						
X							
<b>affected:</b>	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr><td></td><td>X</td></tr> <tr><td></td><td>X</td></tr> </table>		X		X	Test specifications O&M Specifications	
	X						
	X						
<b>Other comments:</b>	⌘						

**How to create CRs using this form:**

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>.

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## 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

- [1] 3GPP TS 29.198-01: "Open Service Access (OSA) Application Programming Interface (API); Part 1: Overview".
- [2] 3GPP TS 22.127: "Service Requirement for the Open Services Access (OSA); Stage 1".
- [3] 3GPP TS 23.127: "Virtual Home Environment (VHE) / Open Service Access (OSA); Stage 2".
- [4] IETF RFC 3460: PCIM, "Policy Core Information Model (PCIM) Extensions"
- [5] IETF RFC 2445: "Internet Calendaring and Scheduling Core Object Specification (iCalendar)".
- [6] [3GPP2 P.S0001-B: "Wireless IP Network Standard", Version 1.0, September 2000.](#)
- [7] [3GPP2 S.R0037-0: "IP Network Architecture Model for cdma2000 Spread Spectrum Systems", Version 2.0, May 14, 2002.](#)
- [8] [Draft 3GPP2 X.P0013: "IP Network for cdma2000 Spread Spectrum Systems 3GPP2 All IP Core Network, Enhancements For, Multimedia Domain", under development.](#)

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## Annex B (informative): Description of Policy Management for 3GPP2 cdma2000 networks

This annex is intended to define the OSA API Stage 3 interface definitions and it provides the complete OSA specifications. It is an extension of OSA API specifications capabilities to enable operation in cdma2000 systems environment. They are in alignment with 3GPP2 Stage 1 requirements and Stage 2 architecture defined in [6], [7] and [8]. These requirements are expressed as additions to and/or exclusions from the 3GPP Release 6 specification. The information given here is to be used by developers in 3GPP2 cdma2000 network architecture to interpret the 3GPP OSA specifications.

### General Exceptions

The term UMTS is not applicable for the cdma2000 family of standards. Nevertheless these terms are used (3GPP TR 21.905) mostly in the broader sense of "3G Wireless System". If not stated otherwise there are no additions or exclusions required.

CAMEL and CAP mappings are not applicable for cdma2000 systems.

## Specific Exceptions

### Clause 1: Scope

There are no additions or exclusions.

### Clause 2: References

Normative references on 3GPP TS 23.078 and on 3GPP TS 29.078 are not applicable for cdma2000 systems.

### Clause 3: Definitions and abbreviations

There are no additions or exclusions.

### Clause 4: Policy Management SCF

There are no additions or exclusions.

### Clause 5: Sequence Diagrams

There are no additions or exclusions.

### Clause 6 Class Diagrams

There are no additions or exclusions.

### Clause 7: The Service Interface Specifications

There are no additions or exclusions.

### Clause 8: Policy Management Interface Classes

There are no additions or exclusions.

### Clause 9: State Transition Diagrams

There are no additions or exclusions.

### Clause 10: Data Definitions

There are no additions or exclusions.

### Clause 11: Policy Management Exception Classes

There are no additions or exclusions.

### Annex A (normative):OMG IDL Description of Policy Management SCF

There are no additions or exclusions.

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## Annex ~~B~~-C (informative): Change history

Change history							
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
April 2002	--	--	--	--	Draft v100 submitted to TSG CN email list for Information	--	1.0.0
June 2002	CN_16	NP-020195	--	--	Draft v200 submitted to TSG CN#16 for Approval	2.0.0	5.0.0
Sep 2002	CN_17	NP-020439	001	--	Add text to clarify requirements on support of methods	5.0.0	5.1.0
Sep 2002	CN_17	NP-020395	002	--	Add text to clarify relationship between 3GPP and ETSI/Parlay OSA specifications	5.0.0	5.1.0
Jun 2003	CN_20	NP-030250	003	--	New Policy Evaluation SCF introduced	5.1.0	6.0.0

## CHANGE REQUEST

⌘ **29.198-14 CR 014** ⌘ rev **-** ⌘ Current version: **5.3.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	⌘ Add OSA API support for 3GPP2 networks		
<b>Source:</b>	⌘ CN5 (liliana.dinale@ericsson.ca)		
<b>Work item code:</b>	⌘ OSA3	<b>Date:</b>	⌘ 31/10/2003
<b>Category:</b>	⌘ <b>B</b>	<b>Release:</b>	⌘ <b>REL-6</b>
	Use <u>one</u> of the following categories: <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)

<b>Reason for change:</b>	⌘ It has been acknowledged that OSA API must shield the complexity of the network, its protocols and specific implementation from the applications. Since the specific underlying network and its protocols are transparent to the application, the OSA API may be deployed in other access networks than 3GPP. One of these networks is 3GPP2. This change is necessary in order to acknowledge OSA API for compatibility with 3GPP2 access networks.
<b>Summary of change:</b>	⌘ Indicate that OSA is applicable to 3GPP2 networks. Provide an Informative Annex that specifies how the OSA API may be used in 3GPP2 networks.
<b>Consequences if not approved:</b>	⌘ Lack of compatibility with other access networks (3GPP2), that may result in market fragmentation.

<b>Clauses affected:</b>	⌘ 2, New Annex C						
<b>Other specs</b>	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 20px;">Y</td> <td style="width: 20px;">N</td> </tr> <tr> <td style="width: 20px;">X</td> <td style="width: 20px;"></td> </tr> </table>	Y	N	X		Other core specifications	⌘ 29.198-1 to 29.198-8 29.198-11 to 29.198-13 29.998-04-4
Y	N						
X							
<b>affected:</b>	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 20px;"></td> <td style="width: 20px;">X</td> </tr> <tr> <td style="width: 20px;"></td> <td style="width: 20px;">X</td> </tr> </table>		X		X	Test specifications O&M Specifications	
	X						
	X						
<b>Other comments:</b>	⌘						

**How to create CRs using this form:**

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>.

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## 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

- [1] 3GPP TS 29.198-1: "Open Service Access; Application Programming Interface; Part 1: Overview".
- [2] 3GPP TS 22.127: "Stage 1 Service Requirement for the Open Service Access (OSA) (Release 5)".
- [3] 3GPP TS 23.127: "Virtual Home Environment (Release 5)".
- [4] [3GPP2 P.S0001-B: "Wireless IP Network Standard", Version 1.0, September 2000.](#)
- [5] [3GPP2 S.R0037-0: "IP Network Architecture Model for cdma2000 Spread Spectrum Systems", Version 2.0, May 14, 2002.](#)
- [6] [Draft 3GPP2 X.P0013: "IP Network for cdma2000 Spread Spectrum Systems 3GPP2 All IP Core Network, Enhancements For, Multimedia Domain", under development.](#)

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### Annex C (informative): Description of Presence and Availability Management for 3GPP2 cdma2000 networks

This annex is intended to define the OSA API Stage 3 interface definitions and it provides the complete OSA specifications. It is an extension of OSA API specifications capabilities to enable operation in cdma2000 systems environment. They are in alignment with 3GPP2 Stage 1 requirements and Stage 2 architecture defined in [4], [5] and [6]. These requirements are expressed as additions to and/or exclusions from the 3GPP Release 6 specification. The information given here is to be used by developers in 3GPP2 cdma2000 network architecture to interpret the 3GPP OSA specifications.

#### General Exceptions

The term UMTS is not applicable for the cdma2000 family of standards. Nevertheless these terms are used (3GPP TR 21.905) mostly in the broader sense of "3G Wireless System". If not stated otherwise there are no additions or exclusions required.

CAMEL and CAP mappings are not applicable for cdma2000 systems.

#### Specific Exceptions

##### Clause 1: Scope

There are no additions or exclusions.

**Clause 2: References**

Normative references on 3GPP TS 23.078 and on 3GPP TS 29.078 are not applicable for cdma2000 systems.

**Clause 3: Definitions and abbreviations**

There are no additions or exclusions.

**Clause 4: Presence and Availability Management SCF**

There are no additions or exclusions.

**Clause 5: Sequence Diagrams**

There are no additions or exclusions.

**Clause 6 Class Diagrams**

There are no additions or exclusions.

**Clause 7: The Service Interface Specifications**

There are no additions or exclusions.

**Clause 8: Presence and Availability Management Interface Classes**

There are no additions or exclusions.

**Clause 9: State Transition Diagrams**

There are no additions or exclusions.

**Clause 10: PAM Service Properties**

There are no additions or exclusions.

**Clause 11: PAM Data Definitions**

There are no additions or exclusions.

**Clause 12: Presence and Availability Management Exception Classes**

There are no additions or exclusions.

**Annex A (normative):OMG IDL Description of Presence and Availability Management SCF**

There are no additions or exclusions.

**Annex B (informative): Java API Description of Presence and Availability Management SCF**

There are no additions or exclusions.

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Annex ~~C~~D (informative):  
Change history

## CHANGE REQUEST

⌘ **29.998-04-4 CR 001** ⌘ rev **-** ⌘ Current version: **5.0.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

**Proposed change affects:** UICC apps  ME  Radio Access Network  Core Network

<b>Title:</b>	⌘ Add OSA API support for 3GPP2 networks in ISC Mapping		
<b>Source:</b>	⌘ CN5 (liliana.dinale@ericsson.ca)		
<b>Work item code:</b>	⌘ OSA3	<b>Date:</b>	⌘ 31/10/2003
<b>Category:</b>	⌘ <b>B</b>	<b>Release:</b>	⌘ REL-6
	Use <u>one</u> of the following categories: <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)

<b>Reason for change:</b>	⌘ It has been acknowledged that OSA API must shield the complexity of the network, its protocols and specific implementation from the applications. Since the specific underlying network and its protocols are transparent to the application, the OSA API may be deployed in other access networks than 3GPP. One of these networks is 3GPP2. This change is necessary in order to acknowledge OSA API for compatibility with 3GPP2 access networks.
<b>Summary of change:</b>	⌘ Indicate that OSA is applicable to 3GPP2 networks. Provide an Informative Annex that specifies how the OSA API may be used in 3GPP2 networks.
<b>Consequences if not approved:</b>	⌘ Lack of compatibility with other access networks (3GPP2), that may result in market fragmentation.

<b>Clauses affected:</b>	⌘ 2, New Annex D										
<b>Other specs affected:</b>	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 20px;">Y</td> <td style="width: 20px;">N</td> </tr> <tr> <td>X</td> <td></td> </tr> <tr> <td></td> <td>X</td> </tr> <tr> <td></td> <td>X</td> </tr> </table> Other core specifications Test specifications O&M Specifications	Y	N	X			X		X	⌘	29.198-1 to 29.198-8 29.198-11 to 29.198-14
Y	N										
X											
	X										
	X										
<b>Other comments:</b>	⌘										

**How to create CRs using this form:**

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>.

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## 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

- [1] 3GPP TS 29.198-1: "Open Service Access (OSA); Application Programming Interface (API); Part 1: Overview".
- [2] 3GPP TS 22.127: " Service Requirement for the Open Service Access (OSA); Stage 1".
- [3] 3GPP TS 22.121: "Service aspects; The Virtual Home Environment; Stage 1".
- [4] 3GPP TR 21.905: "Vocabulary for 3GPP specifications".
- [5] 3GPP TS 29.198-4: "Open Service Access (OSA); Application Programming Interface (API); Part 4: Call control".
- [6] 3GPP TS 23.218: "IP Multimedia (IM) session handling; IP Multimedia (IM) call model; Stage 2".
- [7] 3GPP TS 22.101: "Service aspects; Service principles".
- [8] 3GPP TS 29.228 " IP Multimedia (IM) Subsystem Cx and Dx Interfaces; Signalling flows and message contents".
- [9] 3GPP TR 29.998-1: " Open Service Access (OSA); Application Programming Interface (API) Mapping for Open Service Access; Part 1: General Issues on API Mapping".
- [10] IETF RFC 2806: "URLs for Telephone Calls".
- [11] 3GPP TS 23.228: "IP Multimedia Subsystem (IMS); Stage 2".
- [12] 3GPP TS 24.229: "IP Multimedia Call Control Protocol based on SIP and SDP; Stage 3".
- [13] 3GPP TS 24.228: "Signalling flows for the IP multimedia call control based on SIP and SDP; Stage 3".
- [14] IETF RFC 3261: "SIP: Session Initiation Protocol"  
<ftp://ftp.nordu.net/internet-drafts/draft-ietf-sip-rfc2543bis-09.txt>
- [15] 3GPP TS 29.328: "IP Multimedia Subsystem (IMS) Sh Interface signalling flows and message contents".
- [16] IETF Third party call control draft: "Third Party Call Control in SIP" (draft-rosenberg-sip-3pcc-03.txt).
- [17] [3GPP2 P.S0001-B: "Wireless IP Network Standard", Version 1.0, September 2000.](#)
- [18] [3GPP2 S.R0037-0: "IP Network Architecture Model for cdma2000 Spread Spectrum Systems", Version 2.0, May 14, 2002.](#)
- [19] [Draft 3GPP2 X.P0013: "IP Network for cdma2000 Spread Spectrum Systems 3GPP2 All IP Core Network, Enhancements For, Multimedia Domain", under development.](#)



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## Annex D (informative): Description of Multiparty Call Control ISC Mapping for 3GPP2 cdma2000 networks

This annex is intended to define the OSA API Stage 3 interface definitions and it provides the complete OSA specifications. It is an extension of OSA API specifications capabilities to enable operation in cdma2000 systems environment. They are in alignment with 3GPP2 Stage 1 requirements and Stage 2 architecture defined in [17], [18] and [19]. These requirements are expressed as additions to and/or exclusions from the 3GPP Release 6 specification. The information given here is to be used by developers in 3GPP2 cdma2000 network architecture to interpret the 3GPP OSA specifications.

### General Exceptions

The term UMTS is not applicable for the cdma2000 family of standards. Nevertheless these terms are used (3GPP TR 21.905) mostly in the broader sense of "3G Wireless System". If not stated otherwise there are no additions or exclusions required.

CAMEL and CAP mappings are not applicable for cdma2000 systems.

### Specific Exceptions

#### Clause 1: Scope

There are no additions or exclusions.

#### Clause 2: References

Normative references on 3GPP TS 23.078 and on 3GPP TS 29.078 are not applicable for cdma2000 systems.

#### Clause 3: Definitions and abbreviations

There are no additions or exclusions.

#### Clause 4: Mapping OSA Call and Call Leg to SIP

There are no additions or exclusions.

#### Clause 5: Multi Party Call Control Flows

There are no additions or exclusions.

#### Clause 6: Detailed parameter mappings

There are no additions or exclusions.

#### Annex A: Introduction to API Mapping for OSA MPCCS

There are no additions or exclusions.

#### Annex B: SDP in SIP at application controlled calls for OSA MPCCS API

There are no additions or exclusions.

#### Annex C: OSA call forwarding presentation

There are no additions or exclusions.

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## Annex DE: Change history

Change history							
Date	TSG #	TSG Doc.	CR	Rev	Subject/Comment	Old	New
April 2002	--	--	--	--	Draft v100 submitted to TSG CN email list for Information	--	1.0.0
Jun 2002	CN_16	NP-020197	--	--	Draft v200 submitted to TSG CN#16 for Approval	2.0.0	5.0.0